

## Protein Sequence Searches - February 2005

All of the sequence databases on ABSS have recently been updated.

- Please note that the curators of the UniProt database have purged some temporary accession numbers from the most recent version of UniProt. These sequences have been assigned new permanent accession numbers. The new UniProt record may not contain the previous temporary accession number.
- If you encounter an accession number from an older search run against UniProt (results file extension **.rup**) that can no longer be found in the database, the permanent record with the new accession number can be found by searching the old accession number in the UniProt Protein Archive database (UniPARC) at:

<http://www.pir.uniprot.org/database/archive.shtml>

If you have any questions regarding this information or your results, please contact any STIC searcher.

**When submitting sequence search results for scanning into IFW, please include a copy of this attachment to assist any future Examiners or members of the public who may encounter UniProt temporary accession numbers.**

OM protein - protein search, using sw model  
Run on: April 14, 2006, 01:24:33 ; Search time 163 Seconds  
(without alignments)  
399.886 Million cell updates/sec

Title: US-09-770-528-2  
Perfect score: 156  
Sequence: 1 MWLSGALCFRMDKLSALKVL.....IPEDPAWDAPITDFVFOQCD 156

Scoring table: OLIGO  
Gapop 60.0 , Gapext 60.0

Searched: 1867569 seqs, 417829326 residues

Word size : 8

Total number of hits satisfying chosen parameters: 3

Minimum DB seq length: 8  
Maximum DB seq length: 50

Post-processing: Listing first 45 summaries

Database : Published\_Applications\_AA\_Main:  
1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep.\*  
2: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep.\*  
3: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep.\*  
4: /cgn2\_6/ptodata/1/pubpaa/US10A\_PUBCOMB.pep.\*  
5: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep.\*  
6: /cgn2\_6/ptodata/1/pubpaa/US11\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES				
Result No.	Score	Query Match	Length DB ID	Description
1	23	14.7	29 4	US-10-716-029-251 Sequence 251, App
2	22	14.1	42 4	US-10-716-029-252 Sequence 252, App
3	10	6.4	10 4	US-10-716-029-250 Sequence 250, App

ALIGNMENTS

RESULT 1  
US-10-716-029-251  
; Sequence 251, Application US/10716029  
; Publication No. US20040171038A1  
; GENERAL INFORMATION:  
; APPLICANT: Nicklin, Martin  
; APPLICANT: Kornman, Kenneth  
; APPLICANT: Kolpin, Maryam R  
; APPLICANT: Hsieh, Chung-Ming  
; APPLICANT: Govindaraju, Raju  
; APPLICANT: Aziz, Nazneen  
; TITLE OF INVENTION: The IL-1 Gene Cluster and Associated Inflammatory Polymorphisms  
; FILE REFERENCE: 24299-524 CON  
; CURRENT APPLICATION NUMBER: US/10/716,029  
; PRIOR FILING DATE: 2003-11-17  
; PRIOR APPLICATION NUMBER: 10/351,702  
; PRIOR FILING DATE: 2003-01-25

; PRIOR APPLICATION NUMBER: 60/351,951  
; PRIOR FILING DATE: 2002-01-25  
; NUMBER OF SEQ ID NOS: 277  
; SOFTWARE: Patentin version 3.2  
; SEQ ID NO 251  
; LENGTH: 29  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-716-029-251

Query Match 14.7%; Score 23; DB 4; Length 29;  
Best Local Similarity 100.0%; Pred. No. 7.5e-15;  
Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 12 MKDSALKVLYLHNNQLLAGLHA 34  
Db 1 MKDSALKVLYLHNNQLLAGLHA 23

RESULT 2  
US-10-716-029-252  
; Sequence 252, Application US/10716029  
; Publication No. US20040171038A1  
; GENERAL INFORMATION:  
; APPLICANT: Nicklin, Martin  
; APPLICANT: Kornman, Kenneth  
; APPLICANT: Kolpin, Maryam R  
; APPLICANT: Hsieh, Chung-Ming  
; APPLICANT: Govindaraju, Raju  
; APPLICANT: Aziz, Nazneen  
; TITLE OF INVENTION: The IL-1 Gene Cluster and Associated Inflammatory Polymorphisms  
; FILE REFERENCE: 24299-524 CON  
; CURRENT APPLICATION NUMBER: US/10/716,029  
; PRIOR FILING DATE: 2003-11-17  
; PRIOR APPLICATION NUMBER: 10/351,702  
; PRIOR FILING DATE: 2003-01-25  
; PRIOR APPLICATION NUMBER: 60/351,951  
; NUMBER OF SEQ ID NOS: 277  
; SOFTWARE: Patentin version 3.2  
; SEQ ID NO 252  
; LENGTH: 42  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-716-029-252

Query Match 14.1%; Score 22; DB 4; Length 42;  
Best Local Similarity 100.0%; Pred. No. 1e-13;  
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 51 LDASLSPVILGVGGSGQCLSCG 72  
Db 11 LDASLSPVILGVGGSGQCLSCG 32

RESULT 3  
US-10-716-029-250  
; Sequence 250, Application US/10716029  
; Publication No. US20040171038A1  
; GENERAL INFORMATION:  
; APPLICANT: Nicklin, Martin  
; APPLICANT: Kornman, Kenneth  
; APPLICANT: Kolpin, Maryam R  
; APPLICANT: Hsieh, Chung-Ming  
; APPLICANT: Govindaraju, Raju  
; APPLICANT: Aziz, Nazneen  
; TITLE OF INVENTION: The IL-1 Gene Cluster and Associated Inflammatory Polymorphisms  
; FILE REFERENCE: 24299-524 CON  
; CURRENT APPLICATION NUMBER: US/10/716,029  
; PRIOR FILING DATE: 2003-11-17  
; PRIOR APPLICATION NUMBER: 10/351,702  
; PRIOR FILING DATE: 2003-01-25

```
; CURRENT FILING DATE: 2003-11-17
; PRIOR APPLICATION NUMBER: 10/351,702
; PRIOR FILING DATE: 2003-01-25
; PRIOR APPLICATION NUMBER: 60/351,951
; PRIOR FILING DATE: 2002-01-25
; NUMBER OF SEQ ID NOS: 277
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 250
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-716-029-250
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Query Match      6.4%; Score 10; DB 4; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.018; 0; Indels 0; Gaps 0;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

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QY      2 MVLGALCFR 11
      |||||
Db      1 MVLGALCFR 10
```

```
Search completed: April 14, 2006, 01:27:58
Job time : 163 secs
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GenCore version 5.1.7  
Copyright (c) 1993 - 2006 Bioceleration Ltd.

## OM protein - protein search, using sw model

Run on: April 14, 2006, 01:16:08 ; Search time 185 Seconds  
(without alignments)  
370.503 Million cell updates/sec

Title: US-09-770-528-2  
Perfect score: 156  
Sequence: 1 MMVLGALCFRMDKLSALKVL.....IPEDPAWDAPITDFYFQCD 156

Scoring table: OLIGO  
Gapop 60.0 , Gapext 60.0

Searched: 2443163 seqs, 439378781 residues

Word size : 8

Total number of hits satisfying chosen parameters: 9

Minimum DB seq length: 8

Maximum DB seq length: 50

Post-processing: Listing first 45 summaries

Database : A\_Geneseq\_21:.\*  
1: geneseqp1980s:.\*  
2: geneseqp1990s:.\*  
3: geneseqp2000s:.\*  
4: geneseqp2001s:.\*  
5: geneseqp2002s:.\*  
6: geneseqp2003as:.\*  
7: geneseqp2003bs:.\*  
8: geneseqp2004s:.\*  
9: geneseqp2005s:.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	21	13.5	21	2	AAW85942 Epitope f
2	18	11.5	18	2	AAW85941 Epitope f
3	13	8.3	13	2	AAW85948 Epitope f
4	13	8.3	13	2	AAW85944 Epitope f
5	13	8.3	13	2	AAW85943 Epitope f
6	13	8.3	13	2	AAW85947 Epitope f
7	13	8.3	13	2	AAW85945 Epitope f
8	12	7.7	12	2	AAW85946 Epitope f
9	10	6.4	10	3	Aay96942 Processed

## ALIGNMENTS

RESULT 1  
ID AAW85942 standard; peptide; 21 AA.  
XX  
AC AAW85942;  
XX  
DT 19-FEB-1999 (first entry)  
XX  
DE Epitope fragment of rodent IL-1 delta polypeptide.  
XX

KW Interleukin; IL-1 delta; polyclonal antibody; IL-1 epsilon; cytokine;  
KW inflammatory response; immune system; diagnosis; agonist; antagonist;  
KW chemokine; epitope.

OS Mus sp.

XX WO9847921-A1.

XX 29-OCT-1998.

XX 17-APR-1998; 98WO-US006879.

XX 21-APR-1997; 97US-00837627.

XX 06-AUG-1997; 97US-0055111P.

XX (SCHE ) SCHERING CORP.

XX Hedrick JA, Sana TR, Bazan JF, Kastelein RA;

XX WPI; 1998-609976/51.

XX Mammalian interleukin 1-delta and 1-epsilon - useful for, e.g. regulating  
the immune system and inflammatory responses.

XX Claim 3; Page 100; 113pp; English.

XX The invention relates to a recombinant polypeptide that specifically  
binds polyclonal antibodies (Abs) generated against a 12 consecutive  
amino acid segment of interleukin (IL)-1 delta or IL-1 epsilon. Agonists  
or antagonists of these IL polypeptides are used to regulate a cell  
involved in an inflammatory response. The IL-1 delta or IL-1 epsilon  
polypeptides and peptides are used to produce Abs and antigen-Abs  
complexes. The polypeptides; Abs and the corresponding nucleic acids  
regulate development and/or the immune system, and can be used to  
diagnose and treat conditions associated with abnormal expression of IL.  
Agonists or antagonists of IL-1 delta or IL-1 epsilon polypeptides are  
used with agonists or antagonists of IL-1 alpha, IL-1 beta, IL-1  
gamma, IL-2 and/or IL-12. The IL-1 delta or IL-1 epsilon polypeptides may  
be used as a soluble polypeptide or as a fusion protein with another  
cytokine or chemokine. Sequences AAW85941 to AAW85948 represent epitope  
fragments of a rodent interleukin (IL)-1 delta polypeptide, against which  
polyclonal antibodies can be generated

XX Sequence 21 AA;

Query Match 13.5%; Score 21; DB 2; Length 21;  
Best Local Similarity 100.0%; Pred. No. 1.1e-14;  
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 43 ISVVPNRALDASLSPVILGVQ 63

Db 1 ISVVPNRALDASLSPVILGVQ 21

RESULT 2

AAW85941

ID AAW85941 standard; peptide; 18 AA.

XX AAW85941;

XX 19-FEB-1999 (first entry)

XX Epitope fragment of rodent IL-1 delta polypeptide.

KW Interleukin; IL-1 delta; polyclonal antibody; IL-1 epsilon; cytokine;  
KW inflammatory response; immune system; diagnosis; agonist; antagonist;  
KW chemokine; epitope.

OS Mus sp.

XX WO9847921-A1.

XX 29-OCT-1998.

XX PF 17-APR-1998; 98WO-US006879.  
 XX PR 21-APR-1997; 97US-00837627.  
 XX PR 06-AUG-1997; 97US-0055111P.  
 XX PA (SCHE ) SCHERING CORP.  
 XX PI Hedrick JA, Sana TR, Bazan JF, Kastelein RA;  
 XX DR WPI; 1998-609976/51.  
 XX PT Mammalian interleukin 1-delta and 1-epsilon - useful for, e.g. regulating  
 XX PT the immune system and inflammatory responses.  
 XX PS Claim 3; Page 100; 113pp; English.  
 XX CC The invention relates to a recombinant polypeptide that specifically  
 CC binds polyclonal antibodies (Abs) generated against a 12 consecutive  
 CC amino acid segment of interleukin (IL)-1 delta or IL-1 epsilon. Agonists  
 CC or antagonists of these IL polypeptides are used to regulate a cell  
 CC involved in an inflammatory response. The IL-1 delta or IL-1 epsilon  
 CC polypeptides and peptides are used to produce Abs and antigen-Abs  
 CC complexes. The polypeptides, Abs and the corresponding nucleic acids  
 CC regulate development and/or the immune system, and can be used to  
 CC diagnose and treat conditions associated with abnormal expression of IL.  
 CC Agonists or antagonists of IL-1 delta or IL-1 epsilon polypeptides are  
 CC used with agonists or antagonists of IL-1 alpha, IL-1 beta, IL-1  
 CC gamma, IL-2 and/or IL-12. The IL-1 delta or IL-1 epsilon polypeptides may  
 CC be used as a soluble polypeptide or as a fusion protein with another  
 CC cytokine or chemokine. Sequences AAW85941 to AAW85948 represent epitope  
 CC fragments of a rodent interleukin (IL)-1 delta polypeptide, against which  
 CC polyclonal antibodies can be generated  
 XX SQ Sequence 18 AA;  
 Query Match 11.5%; Score 18; DB 2; Length 18;  
 Best Local Similarity 100.0%; Pred. No. 1.6e-11;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 8 LCFRMDKSLKVLVLYLNN 25  
 DB 1 LCFRMDKSLKVLVLYLNN 18  
 RESULT 3  
 AAW85948  
 ID AAW85948 standard; peptide; 13 AA.  
 AC AAW85948;  
 AC AAW85948;  
 DT 19-FEB-1999 (first entry)  
 DE Epitope fragment of rodent IL-1 delta polypeptide.  
 KW Interleukin; IL-1 delta; polyclonal antibody; IL-1 epsilon; cytokine;  
 KW inflammatory response; immune system; diagnosis; agonist; antagonist;  
 KW chemokine; epitope.  
 XX Mus sp.  
 OS WO9847921-A1.  
 PN 29-OCT-1998.  
 PD 17-APR-1998; 98WO-US006879.  
 PF 21-APR-1997; 97US-00837627.  
 PR 06-AUG-1997; 97US-0055111P.  
 XX (SCHE ) SCHERING CORP.  
 XX PI Hedrick JA, Sana TR, Bazan JF, Kastelein RA;  
 XX DR WPI; 1998-609976/51.  
 XX PT Mammalian interleukin 1-delta and 1-epsilon - useful for, e.g. regulating  
 XX PT the immune system and inflammatory responses.  
 XX PS Claim 3; Page 100; 113pp; English.

XX DR WPI; 1998-609976/51.  
 XX PT Mammalian interleukin 1-delta and 1-epsilon - useful for, e.g. regulating  
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 CC or antagonists of these IL polypeptides are used to regulate a cell  
 CC involved in an inflammatory response. The IL-1 delta or IL-1 epsilon  
 CC polypeptides and peptides are used to produce Abs and antigen-Abs  
 CC complexes. The polypeptides, Abs and the corresponding nucleic acids  
 CC regulate development and/or the immune system, and can be used to  
 CC diagnose and treat conditions associated with abnormal expression of IL.  
 CC Agonists or antagonists of IL-1 delta or IL-1 epsilon polypeptides are  
 CC used with agonists or antagonists of IL-1 alpha, IL-1 beta, IL-1  
 CC gamma, IL-2 and/or IL-12. The IL-1 delta or IL-1 epsilon polypeptides may  
 CC be used as a soluble polypeptide or as a fusion protein with another  
 CC cytokine or chemokine. Sequences AAW85941 to AAW85948 represent epitope  
 CC fragments of a rodent interleukin (IL)-1 delta polypeptide, against which  
 CC polyclonal antibodies can be generated  
 XX SQ Sequence 13 AA;  
 Query Match 8.3%; Score 13; DB 2; Length 13;  
 Best Local Similarity 100.0%; Pred. No. 2.8e-06;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 109 TSSFESAAYPGMF 121  
 DB 1 TSSFESAAYPGMF 13  
 RESULT 4  
 AAW85944  
 ID AAW85944 standard; peptide; 13 AA.  
 AC AAW85944;  
 AC AAW85944;  
 DT 19-FEB-1999 (first entry)  
 DE Epitope fragment of rodent IL-1 delta polypeptide.  
 KW Interleukin; IL-1 delta; polyclonal antibody; IL-1 epsilon; cytokine;  
 KW inflammatory response; immune system; diagnosis; agonist; antagonist;  
 KW chemokine; epitope.  
 XX Mus sp.  
 OS WO9847921-A1.  
 PN 29-OCT-1998.  
 PD 17-APR-1998; 98WO-US006879.  
 PF 21-APR-1997; 97US-00837627.  
 PR 06-AUG-1997; 97US-0055111P.  
 XX (SCHE ) SCHERING CORP.  
 XX PI Hedrick JA, Sana TR, Bazan JF, Kastelein RA;  
 XX DR WPI; 1998-609976/51.  
 XX PT Mammalian interleukin 1-delta and 1-epsilon - useful for, e.g. regulating  
 XX PT the immune system and inflammatory responses.  
 XX PS Claim 3; Page 100; 113pp; English.  
 XX CC The invention relates to a recombinant polypeptide that specifically

CC binds polyclonal antibodies (Abs) generated against a 12 consecutive  
 CC amino acid segment of interleukin (IL)-1 delta or IL-1 epsilon. Agonists  
 CC or antagonists of these IL polypeptides are used to regulate a cell  
 CC involved in an inflammatory response. The IL-1 delta or IL-1 epsilon  
 CC polypeptides and peptides are used to produce Abs and antigen-Abs  
 CC complexes. The polypeptides, Abs and the corresponding nucleic acids  
 CC regulate development and/or the immune system, and can be used to  
 CC diagnose and treat conditions associated with abnormal expression of IL.  
 CC Agonists or antagonists of IL-1 delta or IL-1 epsilon polypeptides are  
 CC used with agonists or antagonists of IL-1 alpha, IL-1RA, IL-1 beta, IL-1  
 CC gamma, IL-2 and/or IL-12. The IL-1 delta or IL-1 epsilon polypeptides may  
 CC be used as a soluble polypeptide or as a fusion protein with another  
 CC cytokine or chemokine. Sequences AAW85941 to AAW85948 represent epitope  
 CC fragments of a rodent interleukin (IL)-1 delta polypeptide, against which  
 CC polyclonal antibodies can be generated  
 XX Sequence 13 AA;  
 SQ

Query Match 8.3%; Score 13; DB 2; Length 13;  
 Best Local Similarity 100.0%; Pred. No. 2.8e-06;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 77 PILKLEPVNIMEL 89  
 DB 1 PILKLEPVNIMEL 13  
 |||||

RESULT 5  
 AAW85943  
 ID AAW85943 standard; peptide; 13 AA.

AC AAW85943;  
 DT 19-FEB-1999 (first entry)

DE Epitope fragment of rodent IL-1 delta polypeptide.

KW Interleukin; IL-1 delta; polyclonal antibody; IL-1 epsilon; cytokine;  
 KW inflammatory response; immune system; diagnosis; agonist; antagonist;  
 KW chemokine; epitope.

XX Mus sp.

XX WO9847921-A1.

XX 29-OCT-1998.

XX 17-APR-1998; 98WO-US006879.

XX 21-APR-1997; 97US-00837627.

XX 06-AUG-1997; 97US-0055111P.

XX (SCHE ) SCHERING CORP.

XX Hedrick JA, Sana TR, Bazan JF, Kastelein RA;

XX WPI; 1998-609976/51.

XX Mammalian interleukin 1-delta and 1-epsilon - useful for, e.g. regulating  
 PT the immune system and inflammatory responses.

XX Claim 3; Page 100; 113pp; English.

XX The invention relates to a recombinant polypeptide that specifically  
 CC binds polyclonal antibodies (Abs) generated against a 12 consecutive  
 CC amino acid segment of interleukin (IL)-1 delta or IL-1 epsilon. Agonists  
 CC or antagonists of these IL polypeptides are used to regulate a cell  
 CC involved in an inflammatory response. The IL-1 delta or IL-1 epsilon  
 CC polypeptides and peptides are used to produce Abs and antigen-Abs  
 CC complexes. The polypeptides, Abs and the corresponding nucleic acids  
 CC regulate development and/or the immune system, and can be used to  
 CC diagnose and treat conditions associated with abnormal expression of IL.  
 CC Agonists or antagonists of IL-1 delta or IL-1 epsilon polypeptides are

CC used with agonists or antagonists of IL-1 alpha, IL-1RA, IL-1 beta, IL-1  
 CC gamma, IL-2 and/or IL-12. The IL-1 delta or IL-1 epsilon polypeptides may  
 CC be used as a soluble polypeptide or as a fusion protein with another  
 CC cytokine or chemokine. Sequences AAW85941 to AAW85948 represent epitope  
 CC fragments of a rodent interleukin (IL)-1 delta polypeptide, against which  
 CC polyclonal antibodies can be generated  
 XX Sequence 13 AA;  
 SQ

Query Match 8.3%; Score 13; DB 2; Length 13;  
 Best Local Similarity 100.0%; Pred. No. 2.8e-06;  
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 56 SPVILGVQGSQC 68  
 DB 1 SPVILGVQGSQC 13  
 |||||

RESULT 6  
 AAW85947  
 ID AAW85947 standard; peptide; 13 AA.

AC AAW85947;

XX 19-FEB-1999 (first entry)

DE Epitope fragment of rodent IL-1 delta polypeptide.

KW Interleukin; IL-1 delta; polyclonal antibody; IL-1 epsilon; cytokine;  
 KW inflammatory response; immune system; diagnosis; agonist; antagonist;  
 KW chemokine; epitope.

XX Mus sp.

XX WO9847921-A1.

XX 29-OCT-1998.

XX 17-APR-1998; 98WO-US006879.

XX 21-APR-1997; 97US-00837627.

XX 06-AUG-1997; 97US-0055111P.

XX (SCHE ) SCHERING CORP.

XX Hedrick JA, Sana TR, Bazan JF, Kastelein RA;

XX WPI; 1998-609976/51.

XX Mammalian interleukin 1-delta and 1-epsilon - useful for, e.g. regulating  
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XX Claim 3; Page 100; 113pp; English.

XX The invention relates to a recombinant polypeptide that specifically  
 CC binds polyclonal antibodies (Abs) generated against a 12 consecutive  
 CC amino acid segment of interleukin (IL)-1 delta or IL-1 epsilon. Agonists  
 CC or antagonists of these IL polypeptides are used to regulate a cell  
 CC involved in an inflammatory response. The IL-1 delta or IL-1 epsilon  
 CC polypeptides and peptides are used to produce Abs and antigen-Abs  
 CC complexes. The polypeptides, Abs and the corresponding nucleic acids  
 CC regulate development and/or the immune system, and can be used to  
 CC diagnose and treat conditions associated with abnormal expression of IL.  
 CC Agonists or antagonists of IL-1 delta or IL-1 epsilon polypeptides are  
 CC used with agonists or antagonists of IL-1 alpha, IL-1RA, IL-1 beta, IL-1  
 CC gamma, IL-2 and/or IL-12. The IL-1 delta or IL-1 epsilon polypeptides may  
 CC be used as a soluble polypeptide or as a fusion protein with another  
 CC cytokine or chemokine. Sequences AAW85941 to AAW85948 represent epitope  
 CC fragments of a rodent interleukin (IL)-1 delta polypeptide, against which  
 CC polyclonal antibodies can be generated  
 XX Sequence 13 AA;

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Query Match      8.3%; Score 13; DB 2; Length 13;
Best Local Similarity 100.0%; Pred. No. 2.8e-06;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 135 TQIPEDPAWDAP1 147
DB 1 TQIPEDPAWDAP1 13

RESULT 7
AAW85945
ID AAW85945 standard; peptide; 13 AA.
XX
XX
AC AAW85945;
XX
DT 19-FEB-1999 (first entry)
XX
DE Epitope fragment of rodent IL-1 delta polypeptide.
XX
KW Interleukin; IL-1 delta; polyclonal antibody; IL-1 epsilon; cytokine;
KW inflammatory response; immune system; diagnosis; agonist; antagonist;
KW chemokine; epitope.
XX
OS Mus sp.
XX
PN WO9847921-A1.
XX
PD 29-OCT-1998.
XX
PF 17-APR-1998; 98WO-US006879.
XX
PR 21-APR-1997; 97US-00837627.
PR 06-AUG-1997; 97US-0055111P.
XX
XX (SCHE ) SCHERING CORP.
XX
PI Hedrick JA, Sana TR, Bazan JF, Kastelein RA;
XX
WPI; 1998-609976/51.
XX
Mammalian interleukin 1-delta and 1-epsilon - useful for, e.g. regulating
the immune system and inflammatory responses.
XX
Claim 3; Page 100; 113pp; English.
XX
The invention relates to a recombinant polypeptide that specifically
binds polyclonal antibodies (Abs) generated against a 12 consecutive
amino acid segment of interleukin (IL)-1 delta or IL-1 epsilon. Agonists
or antagonists of these IL polypeptides are used to regulate a cell
involved in an inflammatory response. The IL-1 delta or IL-1 epsilon
polypeptides and peptides are used to produce Abs and antigen-Abs
complexes. The polypeptides, Abs and the corresponding nucleic acids
regulate development and/or the immune system, and can be used to
diagnose and treat conditions associated with abnormal expression of IL.
Agonists or antagonists of IL-1 delta or IL-1 epsilon polypeptides are
used with agonists or antagonists of IL-1 alpha, IL-1 beta, IL-1
gamma, IL-2 and/or IL-12. The IL-1 delta or IL-1 epsilon polypeptides may
be used as a soluble polypeptide or as a fusion protein with another
cytokine or chemokine. Sequences AAW85941 to AAW85948 represent epitope
fragments of a rodent interleukin (IL)-1 delta polypeptide, against which
polyclonal antibodies can be generated
XX
Sequence 13 AA;

Query Match      8.3%; Score 13; DB 2; Length 13;
Best Local Similarity 100.0%; Pred. No. 2.8e-06;
Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 109 TSSFESAAYPGWF 121
DB 1 TSSFESAAYPGWF 13

Query Match      7.7%; Score 12; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 3.1e-05;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 121 FLCTSPFADQPV 132
DB 1 FLCTSPFADQPV 12

RESULT 8
AAW85946
ID AAW85946 standard; peptide; 12 AA.
XX
XX
AC AAW85946;
XX
DT 19-FEB-1999 (first entry)
XX
DE Epitope fragment of rodent IL-1 delta polypeptide.
XX
KW Interleukin; IL-1 delta; polyclonal antibody; IL-1 epsilon; cytokine;
KW inflammatory response; immune system; diagnosis; agonist; antagonist;
KW chemokine; epitope.
XX
OS Mus sp.
XX
PN WO9847921-A1.
XX
PD 29-OCT-1998.
XX
PF 17-APR-1998; 98WO-US006879.
XX
PR 21-APR-1997; 97US-00837627.
PR 06-AUG-1997; 97US-0055111P.
XX
XX (SCHE ) SCHERING CORP.
XX
PI Hedrick JA, Sana TR, Bazan JF, Kastelein RA;
XX
WPI; 1998-609976/51.
XX
Mammalian interleukin 1-delta and 1-epsilon - useful for, e.g. regulating
the immune system and inflammatory responses.
XX
Claim 3; Page 100; 113pp; English.
XX
The invention relates to a recombinant polypeptide that specifically
binds polyclonal antibodies (Abs) generated against a 12 consecutive
amino acid segment of interleukin (IL)-1 delta or IL-1 epsilon. Agonists
or antagonists of these IL polypeptides are used to regulate a cell
involved in an inflammatory response. The IL-1 delta or IL-1 epsilon
polypeptides and peptides are used to produce Abs and antigen-Abs
complexes. The polypeptides, Abs and the corresponding nucleic acids
regulate development and/or the immune system, and can be used to
diagnose and treat conditions associated with abnormal expression of IL.
Agonists or antagonists of IL-1 delta or IL-1 epsilon polypeptides are
used with agonists or antagonists of IL-1 alpha, IL-1 beta, IL-1
gamma, IL-2 and/or IL-12. The IL-1 delta or IL-1 epsilon polypeptides may
be used as a soluble polypeptide or as a fusion protein with another
cytokine or chemokine. Sequences AAW85941 to AAW85948 represent epitope
fragments of a rodent interleukin (IL)-1 delta polypeptide, against which
polyclonal antibodies can be generated
XX
Sequence 12 AA;

Query Match      7.7%; Score 12; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 3.1e-05;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 121 FLCTSPFADQPV 132
DB 1 FLCTSPFADQPV 12

RESULT 9
AAW85942
ID AAW85942 standard; peptide; 10 AA.
XX
XX
AC AAW85942;
XX
DT 31-OCT-2000 (first entry)
XX
DE Processed N-terminal peptide of human and murine IL-1Ra3.

```

```

XX hIL-1Ra1L; human interleukin-1 receptor antagonist-1 long; IL-1lp;
KW osteopathic; interleukin-1-like polypeptide; anti-inflammatory;
KW anti-asthmatic; anti-arthritic; antimicrobial; respiratory; vaccine;
KW anti-ischemic; dermatological; immunomodulatory; gastrointestinal;
KW gene therapy; N-terminal.
XX
XX Homo sapiens.
OS Mus sp.
XX WO200039297-A2.
XX
XX 06-JUL-2000.
XX
XX 22-DEC-1999; 99WO-US030720.
XX
XX 23-DEC-1998; 98US-0113430P.
PR 22-JAN-1999; 99US-0116843P.
PR 13-APR-1999; 99US-0129122P.
XX
XX (GETH ) GENENTECH INC.
XX
XX Goddard A, Pan J;
XX
XX WPI; 2000-452395/39.
XX
XX Nucleic acids encoding interleukin-1-like polypeptides, useful for
XX preventing and treating e.g. inflammation, asthma and psoriasis.
XX
XX Example 14; Page 95; 143pp; English.
XX
XX An isolated nucleic acid molecule encoding an interleukin-1-like
XX polypeptide (IL-1lp) that retains one or more activities of the peptide
XX from which it is derived, such as the IL-18R binding activity of a human
XX interleukin-1 receptor antagonist-1 (hIL-1Ra1) polypeptide, is new. The
XX nucleic acids may be used in molecular engineering applications, e.g.
XX hybridization assays and chromosome and gene mapping studies, for
XX recombinantly producing the IL-1lp polypeptide or for producing gene
XX knock out animals to study the role of the protein in metabolism and
XX disease processes (conversely, gene therapy protocols may be used to
XX supplement a patient's production of the polypeptide or to rectify
XX mutations that lead to the production of in active peptides). The
XX peptides produced may be used to screen for and produce modulators (e.g.
XX antibodies) of IL-1lp protein expression and activity which may be use to
XX treat disorders associated with inappropriate IL-1lp expression and
XX activity, such as inflammatory disorders, asthma, arthritis,
XX osteoarthritis, sepsis, acute lung injury, adult respiratory distress
XX syndrome, idiopathic pulmonary fibrosis, ischemic reperfusion disease,
XX psoriasis, graft versus host disease and/or inflammatory bowel disease
XX
XX SQ Sequence 10 AA;

```

```

Query Match          6.4%; Score 10; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.0036;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 3 VLSGALCFRM 12
   |||||
Db 1 VLSGALCFRM 10

```

Search completed: April 14, 2006, 01:19:40  
Job time : 185 secs



GenCore version 5.1.7  
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OM protein - protein search, using sw model

Run on: April 14, 2006, 01:19:58 ; Search time 38 Seconds  
(without alignments)  
394.995 Million cell updates/sec

Title: US-09-770-528-2  
Perfect score: 156  
Sequence: 1 MWVLGALCFRMKDSALKVL.....IPEDPAWDAPITDFYFQQCD 156

Scoring table: OLIGO  
Gapop 60.0 , Gapext 60.0

Searched: 283416 seqs, 96216763 residues

Word size : 8

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 8  
Maximum DB seq length: 50

Post-processing: Listing first 45 summaries

Database : PIR 80:\*  
1: pir1:\*  
2: pir2:\*  
3: pir3:\*  
4: pir4:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
-----					

No matches found

Search completed: April 14, 2006, 01:24:18  
Job time : 38 secs

GenCore version 5.1.7  
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OM protein - protein search, using sw model

Run on: April 14, 2006, 01:16:48 ; Search time 228 Seconds  
(without alignments)  
482.730 Million cell updates/sec

Title: US-09-770-528-2  
Perfect score: 156  
Sequence: 1 MWVLSGALCFRMKDSALKVL.....IPEDPAWDAPITDFYFQQCD 156

Scoring table: OLIGO  
Gapop 60.0 , Gapext 60.0

Searched: 2166443 seqs, 705528306 residues

Word size : 8

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 8  
Maximum DB seq length: 50

Post-processing: Listing first 45 summaries

Database : UniProt 05.80:\*  
1: uniprot\_sprot:\*  
2: uniprot\_trembl:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

# SUMMARIES

Result #	Query	Score	Match	Length	ID	Description
-----						

No matches found

Search completed: April 14, 2006, 01:23:34  
Job time : 228 secs

GenCore version 5.1.7  
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OM protein - protein search, using sw model

Run on: April 14, 2006, 01:23:48 ; Search time 46 Seconds  
(without alignments)  
280.378 Million cell updates/sec

Title: US-09-770-528-2  
Perfect score: 156  
Sequence: 1 MMVLSGALCFRMKDSALKVL.....IPEDPAWDAPITDFYFQQCD 156

Scoring table: OLIGO  
Gapop 60.0 , Gapext 60.0

Searched: 572060 seqs, 82675679 residues

Word size : 8

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 8  
Maximum DB seq length: 50

Post-processing: Listing first 45 summaries

Database : Issued Patents, AA.\*  
1: /cgn2\_6/ptodata/1/iaa/5 COMB.pep.\*  
2: /cgn2\_6/ptodata/1/iaa/6 COMB.pep.\*  
3: /cgn2\_6/ptodata/1/iaa/H COMB.pep.\*  
4: /cgn2\_6/ptodata/1/iaa/PCUS COMB.pep.\*  
5: /cgn2\_6/ptodata/1/iaa/RE COMB.pep.\*  
6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
---------------	-------	----------------	--------	----	-------------

No matches found

Search completed: April 14, 2006, 01:25:10  
Job time : 46 secs

GenCore version 5.1.7  
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OM protein - protein search, using sw model

Run on: April 14, 2006, 01:25:23 ; Search time 26 Seconds  
(without alignments)  
254.935 Million cell updates/sec

Title: US-09-770-528-2  
Perfect score: 156  
Sequence: 1 MVLGALCFRMDALKVL.....IPEDPAWDAPITDFYFQQCD 156

Scoring table: OLIGO  
Gapop 60.0 , Gapext 60.0

Searched: 217505 seqs, 42489236 residues

Word size : 8

Total number of hits satisfying chosen parameters: 0

Minimum DB seq length: 8  
Maximum DB seq length: 50

Post-processing: Listing first 45 summaries

Database : Published Applications AA New:\*  
1: /SIDSS/ptodata/1/pubpaa/US08\_NEW\_PUB.pep:\*  
2: /SIDSS/ptodata/1/pubpaa/US06\_NEW\_PUB.pep:\*  
3: /SIDSS/ptodata/1/pubpaa/US07\_NEW\_PUB.pep:\*  
4: /SIDSS/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep:\*  
5: /SIDSS/ptodata/1/pubpaa/US09\_NEW\_PUB.pep:\*  
6: /SIDSS/ptodata/1/pubpaa/US10\_NEW\_PUB.pep:\*  
7: /SIDSS/ptodata/1/pubpaa/US11\_NEW\_PUB.pep:\*  
8: /SIDSS/ptodata/1/pubpaa/US60\_NEW\_PUB.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
---------------	-------	----------------	--------	-------	-------------

No matches found

Search completed: April 14, 2006, 01:28:30  
Job time : 26 secs